

Material	Test For	Sampling Location	Frequency	Reference Section
Earthwork, Aggregate Base, and Bedding				
Subgrade	Relative Compaction	Jobsite	One test per compacted area	CSJ 21-1.05
Bedding	Sieve Analysis and Cleanness Value	Stockpile	1 per job minimum	CSJ 1301-2.1
	Sand Equivalent	Stockpile	If required by Sieve Analysis Result	
Embankment/Trench Backfill	Relative Compaction	Jobsite	As required for acceptance (min. 1/trench)	CSJ 19-5
Structure Backfill	Sieve Analysis and Sand Equivalent	Stockpile	1 test per job minimum	CSJ 1301-2.2.2
	Relative Compaction	Jobsite	1 test within 5' of basement grade and 1 test at basement grade	Field group
Aggregate Subbase	Sieve Analysis and Sand Equivalent	Stockpile	1 test per area minimum	CAL 25-1.02A
	R Value	N/A	Certificate of Compliance	
Aggregate Base	Sieve Analysis and Sand Equivalent	Stockpile	1 test per job minimum	CAL 26-1.02
	R value and Durability Index	N/A	Certificate of Compliance	CSJ 26-1.02A
	Relative Compaction	Jobsite	One test per 3' lift	CSJ 26-1.05
Portland Cement Concrete				
Structural Concrete	Compressive Strength	Jobsite	Every 150 cu. yards, 1 per pour min.	ACI 5.6.1
	Slump, Air and Temperature	Jobsite	At sampling	
Minor Concrete	Compressive Strength	Jobsite	Every 300 cu. yards, 1 per job min.	Field Group
	Slump, Air and Temperature	Jobsite	At sampling	
	Flexural Strength	Jobsite	Every 300 cu. yards, 1 per job min.	
Lime Treated Base				
	Spread Rate	Jobsite	One test per day min.	CSJ 24-1.04
	Gradation			
	Relative Compaction			
Asphalt Concrete				
Aggregate	Sieve Analysis	Plant	Every 1000 tons, 1 per job min.	Field group
	Sand Equivalent			
Hot Mix AC	Stabilometer Value (S-Value)	Jobsite	Every 750 tons, 1 per job min.	Field Group
	Lab Compacted Density			
	Maximum Theoretical Density			
	Percent Air Voids	Jobsite	One test plan per compacted area	CSJ 39-6.03
Relative Compaction				
Slurry Seal				
Aggregate	Gradation	Jobsite	One test per day min.	
	Durability Index			
	Sand Equivalent			
Emulsion	Penetration	Jobsite	One test per day	Field Group
	Viscosity			
	Percent Residue			
	Softening Point	Jobsite	One test per day min.	
	Spread Rate			
Wet Track Abrasion				
Chip Seal				
Aggregate	Gradation	Jobsite	One test per job min.	
	Cleanness Value			
	L.A. Rattler			
	Spread Rate			
Emulsion	Penetration	Jobsite	One test per day	Field Group
	Viscosity			
	Percent Residue			
	Softening Point			
	Demulsibility			
	Torsional Recovery			
Pipe				
Reinforced Concrete Pipe	D-Load	Plant	Every 400 LF, Every 100 LF Min.	CSJ 1207-2.1.1
	Cores	Plant	1 set of 4 every 400 LF if = 36"	CSJ 1207-2.8
	Visual Inspection	Jobsite	Every Pipe	
	Hydrostat	Plant	= 36": 1 per 400 LF, < 36": as req'd	CSJ 1207-2.1.1
Vitrified Clay Pipe	Bearing/Hydrostat	By Supplier	Submit Certificate of Compliance	Greenbook 207-8.5
	D-Load	By Supplier	Submit Certificate of Compliance	Greenbook 207-8.2.3
	Visual Inspection	Jobsite	Every Pipe	